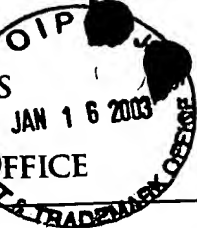


UNITED STATES
PATENT AND
TRADEMARK OFFICE



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PERMANANDGREENLLP

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

DECEMBER 20, 2001

PERMAN & GREEN, LLP
CLARENCE A. GREEN
425 POST ROAD
FAIRFIELD, CT 06430-6232

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Technology Center 2600



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/10/2001

REEL/FRAME: 012250/0723
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
LAHTENMAKI, MARKKU

DOC DATE: 07/30/2001

ASSIGNOR:
MAATTA, ESA

DOC DATE: 07/31/2001

ASSIGNOR:
SAUKKO, JARI

DOC DATE: 08/01/2001

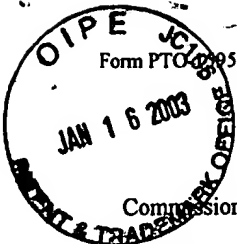
ASSIGNEE:
NOKIA MOBILE PHONES LTD.
KEILALAHDENTIE 4
02150 ESPOO, FINLAND

SERIAL NUMBER: 09975516
PATENT NUMBER:


FILING DATE: 10/10/2001
ISSUE DATE:

012250/0773 PAGE 2

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECORDATION FORM COVER SHEET
PATENTS ONLY

Commissioner of Patents, Washington, D.C. 20231 Please record the attached document

1. Name of conveying party(ies): 1) Markku LAHTENMAKI 2) Esa MAATTA 3) Jari SAUKKO 4) Michael JOSENHANS Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Nokia Mobile Phones Ltd. Address: Keilalahdentie 4 City: FIN-02150 Espoo State: ZIP Code: Country: Finland Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 1) signed Dec. 16, 2002 2) signed Dec. 17, 2002 3) signed Dec. 19, 2002 4) signed Dec. 3, 2002			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s): 09/975,516 B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Janik Marcovici Address: Perman & Green, LLP 425 Post Road City: Fairfield State: CT ZIP Code: 06824		6. Total number of applications and/or patents involved: 1 7. Total fee (37 CFR 3.41):\$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account 8. Deposit account number: 16-1350	
DO NOT USE THIS SPACE			
9. Statement And Signature: <i>To the best of my knowledge and belief, the foregoing information is true and Correct and, the attached document is either an original document or a true copy of the original document.</i> Janik Marcovici Name of Person Signing  Signature January 10, 2003 Date Customer No.: 2512 Total number of pages including cover sheet(s): 3 Page 1 of 1.			

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

**Docket No.:
460-010615-US(PAR)**

This is an Assignment of the following rights, title and interest: (check all that apply):

- ☒ *United States of America rights, title and interest in the invention*
☒ *Foreign rights, title and interest in the invention*
☒ *United States Patent Application Serial No.: 09/975,516*
Date of Execution: 10/10/01 Date of Filing:
☐ *United States Provisional Patent Application Serial No.:*
☐ *United States Patent No(s):*
☐ *International (PCT) Patent Application Serial No.:*
☐ *Other (specify):*

TITLE OF THE INVENTION

COMMUNICATION DEVICE

INVENTORS (ASSIGNORS)

<i>NAME</i>	<i>ADDRESS</i>
<i>Markku LÄHTEENMÄKI</i>	<i>Aino Acktén tie 10 B 15, FIN-00400 Helsinki, Finland</i>
<i>Esa MÄÄTTÄ</i>	<i>Finninmäenkatu 12 C 19, FIN-33710 Tampere, Finland</i>
<i>Jari SAUKKO</i>	<i>Laattapolku 3 B 26, FIN-33720 Tampere, Finland</i>
<i>Michael JOSEPHANS</i>	<i>Hellweg 42, D-45721 Haltern, Germany</i>

ASSIGNEE

<i>NAME</i>	<i>ADDRESS</i>
<i>NOKIA MOBILE PHONES LTD.</i>	<i>Keilalahdentie 4, FIN-02150 Espoo Finland</i>

Docket No.:
460-010615-US(PAR)

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

[illegible]



- 19-2001



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ER SHEET

DOCKET: 460-010615-US(PAR)

Commissioner of Patents, Washington, D.C. 20231 Please record the attached document

1. Name of conveying party(ies):

- 1) Markku LAHTEENMAKI
- 2) Esa MAATTA
- 3) Jari SAUKKO

 Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

 Execution Date: 1) signed on July 30, 2001,
 2) signed on July 31, 2001,
 3) signed on August 1, 2001

2. Name and address of receiving party(ies):

Name: Nokia Mobile Phones Ltd.

Address: Keilalahdentie

City: 02150 Espoo

State:

Country: Finland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

 If this document is being filed together with a new application, the execution date of the application is: July 30, 2001,

A. Patent Application No(s):

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

 Name: Clarence A. Green
 Address: Perman & Green, LLP
 425 Post Road

City: Fairfield

State: CT

ZIP Code: 06430-6232

6. Total number of applications and/or patents involved:

..... 1

7. Total fee (37 CFR 3.41):\$40.00

- ☒ Enclosed
☐ Charge deposit account
☒ Please charge any fee deficiency to deposit account

8. Deposit account number: 16-1350

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9. Statement And Signature:

To the best of my knowledge and belief, the foregoing information is true and Correct and, the attached document is either an original document or a true copy of the original document.

 Clarence A. Green
 Name of Person Signing

Signature

 October 10, 2001
 Date

Customer No.: 2512

Total number of pages including cover sheet(s): 3

Express Mail No.: EL627510318US

Page 1 of 1.

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 09/975516
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 ZIP Code:

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.:

This is an Assignment of the following rights, title and interest: (check all that apply):

- ☒ *United States of America rights, title and interest in the invention*
☒ *Foreign rights, title and interest in the invention*
☐ *United States Patent Application Serial No.:*
Date of Execution: *Date of Filing:*
☐ *United States Provisional Patent Application Serial No.:*
☐ *United States Patent No(s):*
☐ *International (PCT) Patent Application Serial No.:*
☐ *Other (specify):*

TITLE OF THE INVENTION

COMMUNICATION DEVICE

INVENTORS (ASSIGNORS)

NAME	ADDRESS
LAHTENMÄKI, Markku	Aino Acktén tie 10 B 15, FIN-00400 Helsinki, Finland
MÄÄTTÄ, Esa	Finninmäenkatu 12 C 19, FIN-33710 Tampere, Finland
SAUKKO, Jari	Laattapolku 3 B 26, FIN-33720 Tampere, Finland

ASSIGNEE

NAME	ADDRESS
NOKIA MOBILE PHONES LTD.	Keilalahdentie 4, FIN-02150 Espoo, Finland

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.:

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

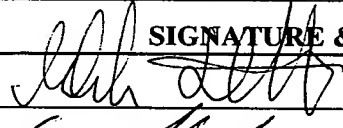
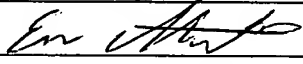
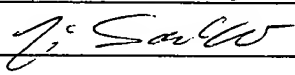
Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to added page(s))

NAME	SIGNATURE & DATE
LÄHTEENMÄKI, Markku	 30.7.2001 (30 July 2001)
MÄÄTTÄ, Esa	 31.7.2001 (31 July 2001)
SAUKKO, Jari	 31.7.2001 (1 August 2001)

☐ Check here if additional pages are added for Notarization (Number of pages added)



2681

#4

W. Lauer
2/3/03

Practitioner's Docket No. 460-010615-US(PAR)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: LAHTENMAKI et al.

Application No.: 09 / 975,516

Group No.: 2681

Filed: October 10, 2001

Examiner:

For: COMMUNICATION DEVICE

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Commissioner for Patents
Washington, D.C. 20231

Technology Center 2600

AMENDMENT, REQUEST AND FEE TO DELETE AND/OR
ADD TO ORIGINAL ERRONEOUSLY NAMED OR NOT NAMED
INVENTOR(S) IN—NONPROVISIONAL APPLICATION—DECLARATION
(37 C.F.R. § 1.48(a))

NOTE: "If the inventive entity is set forth in error in an executed § 1.63 oath or declaration in a nonprovisional application, and such error arose without any deceptive intention of the part of the person named as an inventor in error or on the part of the person who through error was not named as an inventor, the inventorship of the nonprovisional application may be amended to name only the actual inventor or inventors." 37 C.F.R. § 1.48(a)

NOTE: 37 C.F.R. § 1.48(f)(1): "Nonprovisional application-filing executed oath/declaration corrects inventorship. If the correct inventor or inventors are not named on filing a nonprovisional application under § 1.53(b) without an executed oath or declaration under § 1.63 by any of the inventors, the first submission of an executed oath or declaration under § 1.63 by any of the inventors during the pendency of the application will act to correct the earlier identification of inventorship. See §§ 1.41(a)(4) and 1.497(d) for submission of an executed oath or declaration to enter the national stage under 35 U.S.C. 371 and § 1.494 or § 1.495 naming an inventive entity different from the inventive entity set forth in the international stage."

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*
(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

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☒ deposited with the United States Postal Service in an envelope addressed to the Commissioner of Patents, Washington, D.C. 20231

37 C.F.R. § 1.8(a)

37 C.F.R. § 1.10*

☒ with sufficient postage as first class mail.

☐ as "Express Mail Post Office to Addressee"

Mailing Label No. _____ (mandatory)

TRANSMISSION

☐ facsimile transmitted to the Patent and Trademark Office, (703) _____

Deborah J. Clark
Signature

Date: Jan. 10, 2003

DEBORAH J. CLARK
(type or print name of person certifying)

* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

(Amendment, Request and Fee to Delete and/or Add to Original Erroneously Named or Not Named Inventor(s) in—Nonprovisional Application—Declaration (37 C.F.R. § 1.48(a)) [9-22]—page 1 of 3)

01/16/2003 FRANKIA 00000011 09975516

130.00 OP
01 FC:1460

1. This amendment and request is to correct the incorrect original naming of inventor(s) in the declaration under 37 C.F.R. § 1.48(a) as set forth and filed on 10/10/01 (date).
2. Addition and/or Deletion of Inventor(s)

(check and complete all applicable items)

- ☒ Add the following previously unnamed person(s) as inventor(s) of this application:

Michael JOSENHANS

- ☐ Delete the following previously incorrectly named inventor(s)

3. Attachments

Attached is

- (a) A statement from: (check items below that apply)
- ☒ each person being added as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 C.F.R. § 1.48(a)(1).
 - ☐ each person being deleted as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 C.F.R. § 1.48(a)(1).
- (b) a declaration by each of the actual inventor(s) as required by 37 C.F.R. § 1.63 (or as permitted by §§ 1.42, 1.43, OR 1.47). 37 C.F.R. § 1.48(a)(2).
- (c) written assent of the assignee (if any of the original inventors executed an assignment) 37 C.F.R. 1.48(a)(4)
- (d) (check the following item, if all the inventor(s) remaining after this petition and amendment is accepted are not the inventor(s) of the subject matter of all the claim(s) now being claimed.)
- ☐ Attached is an explanation of the facts, including the ownership of all the claim(s) being claimed in this application, including the ownership of all the claim(s) at the time the last claimed invention was made (Declaration of Inventorship and Common Ownership of Claims in Application).

4. Fee Payment (37 C.F.R. § 1.17(f)–\$130.00)

The fee required is paid as follows:

- ☒ Attached is a ☒ check ☐ money order in the amount of \$ 130.00
- ☒ Authorization is hereby made to charge the amount of \$ _____
- ☒ to Deposit Account No. 16-1350
 - ☐ to Credit card as shown on the attached credit card information authorization form PTO-2038.

WARNING: Credit card information should not be included on this form as it may become public.

- ☒ Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

(Amendment, Request and Fee to Delete and/or Add to Original Erroneously Named or Not Named Inventor(s)
in—Nonprovisional Application—Declaration (37 C.F.R. § 1.48(a)) [9-22]—page 2 of 3)

Reg. No.: 42,841

Tel. No.: (203) 259-1800

Customer No.: 2512



SIGNATURE OF PRACTITIONER

Janik Marcovici

(type or print name of practitioner)

PERMAN & GREEN, LLP

425 Post Road,

P.O. Address

Fairfield, Connecticut 06824

(Amendment, Request and Fee to Delete and/or Add to Original Erroneously Named or Not Named Inventor(s)
in—Nonprovisional Application—Declaration (37 C.F.R. § 1.48(a)) [9-22]—page 3 of 3)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: LAHTENMAKI et al.

SERIAL NO.: 09/975,516

ART UNIT: 2681

FILED: October 10, 2001

EXAMINER:

TITLE: COMMUNICATION DEVICE

ATTORNEY DOCKET NO.: 460-010615-US (PAR)

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Technology Center 2000

Assistant Commissioner for Patents

Washington, D.C. 20231

STATEMENT OF NON-DECEPTIVE INTENT BY PERSON BEING ADDED BY
REQUEST TO CHANGE INVENTORSHIP UNDER 37 C.F.R. 1.48(a)

Dear Sir:

The undersigned hereby states that:

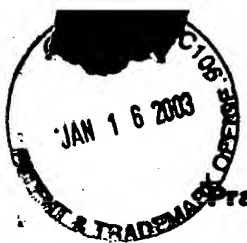
1. I am being added as an inventor to the above-identified patent application by a Request to correct the inventorship in this application under 37 C.F.R. 1.48(a).
2. The inventorship error in failing to include my name as an inventor on this patent occurred without any deceptive intention on my part.

Michael JOSENHANS

Name of Inventor

M. Josenhans

Signature of Inventor



Practitioner's Docket No. 460-010615-US(PAR)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: LAHTENMAKI et al.

Application No.: 09 / 975,516 Group No.: 2681

Filed: October 10, 2001 Examiner:

For: COMMUNICATION DEVICE

RECEIVED

JAN 17 2003

Technology Center 2000

**Assistant Commissioner for Patents
Washington, D.C. 20231**

**ASSENT OF ASSIGNEE TO CORRECTION
AND/OR ADDITION OF INVENTOR(S)**

NOKIA MOBILE PHONES LTD.

(type or print name of assignee)

Keilalahdentie 4, FIN-02150 Espoo, Finland

Address

Assignment

☒ recorded on October 10, 2001

Reel 012250

Frame 0723

☐ recorded herewith

☐ A separate ☐ "ASSIGNMENT" (DOCUMENT) COVER SHEET is attached.

or

☐ FORM PTO 1595 is attached.

Assignee hereby assents to the correction of inventorship filed

☐ herewith.

☒ on October 10, 2001

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. § 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

FACSIMILE

☐ transmitted by facsimile to the Patent and Trademark Office.

Date: 1/10/03

Signature

DEBORAH J. CLARK
(type or print name of person certifying)

ASSIGNEE STATEMENT

A "STATEMENT UNDER 37 C.F.R. § 3.73(b)" is attached.

Application No.: 09/975,516

Filed: October 10, 2001

For: COMMUNICATION DEVICE



Signature

Mika Lehtinen, Senior Engineering Manager
(type or print name and title of person authorized to sign
on behalf of assignee)

(Assent of Assignee to Correction and/or Addition of Inventor(s) [9-23]—page 2 of 2)



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/96 (8-88)
Approved for use through 09/30/2000. OMB 0851-0031
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: LAHTENMAKI et al.

Application No./Patent No.: 09/975,516 Filed/Issue Date: October 10, 2001

Entitled: COMMUNICATION DEVICE

Nokia Mobile Phones Ltd., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

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in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 012250 Frame 0723, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

1/7/03
Date

Ju
Signature

JANIK MARCOVICI
Typed or printed name

ATTORNEY, RSD. NO. 42841
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.